DXCC · WAZ

SO. CALIF DX CLUB

Bulletin

SEPTEMBER
1984

President: Joe Locascio, K5KT • Vice President: Marty Woll, N6VI •
Treasurer: Esther Wolf, KB6HW • Secretary: Dan Davitt, N6CGB •
Directors: Don Bostrom, N6IC; Jim Rafferty, N6RJ; Chris Williams, K66AR •
Membership: Len Gerardi, NC6H • Bulletin Editor: George Morris, W6ABW •

Next meeting: THURSDAY SEPTEMBER 13 AT 7:30 PM IN THE DWP CAFETERIA

SEPTEMBER MEETING

HAMS AND THE LAW

Antenna and tower restrictions are among the many legal problems which face today's DXer. These, and other, subjects will be addressed at our September meeting by Jon Gallo, KB6WT, a SCDXC member and an attorney.

FATHER MORAN, 9N1MM, UNABLE TO ATTEND

Father Moran, 9N1MM, had previously been announced as the speaker for the September meeting. Unfortunately, his travel plans have changed so that he is unable to be in Los Angeles the night of our meeting.

RF TEST EQUIPMENT AVAILABLE
By Marty Woll, N6VI

I have recently acquired a Hewlett-Packard 608-D VHF signal generator and a 415-B swr meter, by poking around swap meets. Although hardly state-of-the-art any more, it all works. One of the things I can do with this setup is measure insertion loss in lengths of coax, relays, switches, filters, etc. and port-to-port isolation in relays and switches, all to within a fraction of a db. I have found this capability very helpful in finding faulty components and evaluating newly acquired ones.

I would like to make this modest test facility available to other club members. If you need to run any of the above-described tests give me a call and I will be happy to arrange a time for you to bring the subject hardware to my house, where we can check it out. Sorry I can't make house calls, but the generator isn't very portable (too big and heavy).

I would also like to encourage other club members to let us know what they might have available in the way of test gear (either at home or readily available at work) by dropping a note to the Bulletin editor. I hope this will spread and become a valuable benefit of membership. By sharing our technical resources we can help improve the quality and effectiveness of our collective stations.

CONGRATULATIONS TO MARTY WOLL, N6VI

Our congratulations go to Marty Woll, N6VI, Vice-President of the SCDXC, who has recently been admitted as a partner in Coopers & Lybrand, the international firm of certified public accountants for whom Marty has worked since graduating from college twelve years ago. Marty says, "This is really the main goal of my professional career to date. It's hardly easy street - there will be planty of new challenges but I hope to have a little more time for radio once I settle into my new role."

ENDORSABLE DXCC AWARD FOR 160 METERS

The ARRL Awards Committee, in consultation with the DX Advisory Committee, has approved an endorsable DXCC award for 160 meters, effective November 1, 1984. Contacts since November 15, 1945, may be credited. Previously, the Top Band award was not endorsable. As with the recently implemented endorsable RTTY award, there will be no Honor Roll on 160 meters. This action was precipitated by Board Minute #35 (March 1984) authorizing additional endorsable awards. An endorsable satellite award permitting OSCAR 10 contacts is still being studied by ARRL in conjunction with AMSAT.

REPEATER WORK IN PROGRESS

The SCDXC repeater has been off the air for the past few days to make some technical modifications to improve operability and flexibility. It is hoped the repeater will be back on the air by the time you receive this month's Bulletin.

SCDXC VP MAKES QST COVER

Marty Woll, N6VI, SCDXC Vice President is on the cover of the September issue of QST. He is shown participating in Olympic activities with a handheld.

A FEW WORDS ABOUT CONTESTING
By Marty Woll, N6VI

There are those who believe that contesting is an activity separate and apart from DXing and that, accordingly, it should not be the province of the Southern California DX Club. As the recently appointed Southwestern Division member of the ARRL Contest Advisory Committee I would like to come to the defense of contesting and, I hope, change a few minds.

To begin with let's look at a traditional "DX" activity: the morning pile-up. To be successful one must possess some combination of propagation awareness, equipment and antenna effectiveness and operating skill, and should enjoy going head-to-head with fellow amateurs in (usually) friendly competition. The successful contester needs all these same qualities. Not much difference here. Now, what does the DXer like to do most? Contact foreign amateurs. There are literally dozens of contests in which you can do just that. The DXer also likes to measure his success by country or band-country or zone count. Gosh! That's just how a contester comes up with his score multiplier. DXers like to see thier call in QST. Contesters get their calls in QST and other amateur publications as often as they wish (i.e., as often as they enter contests). It's starting to sound as though these two activities are very similar, indeed.

What benefits can a non-contesting DXer get from trying a few contests? For one thing, he gets enough concentrated on-the-air time to improve his chances of snagging a needed country on a needed band. Those chances are enhanced by the speed at which contacts are made - you don't have to wait for some long-winded type to say good bye for fifteen minutes while the band drops out. His concentrated on-the-air time also sharpens his propagation awareness. And, nothing will point out the weaknesses in one's equipment, antenna system and station layout like some heavy-duty contest operating. A frequent contest participant has

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MINUTES OF THE JULY 12, 1984 MEETING

By Dan Daviff, N6CGB
Secretary, SCDXC

The meeting was called to order at 8:06 PM by Joe Locascio, K5KT, SCDXC President. The evening began with the self introduction of members and guests. Seventy persons were counted in attendance.

Cleyon, AD6P, gave an update on the repeater. The controller is due to be installed this coming week or the next week. The 1Z PL or the "old" PL are OK.

Fried, WA6WZO, gave a report on the Volunteer Examiner Coordinators (VEC) status.

Dave, W6AQ, was announced as the Banquet speaker for the Southwestern Division ARRL Convention in Santa Maria, October 12, 13, and 14, 1984. Tickets are still available from: HAMCON, Inc., Box 2457, Santa Maria, CA. 93455-0457.

Marty, N6VI, read the list of the evening's prizes, and reminded everyone of the Pizza Bash next month at Me & Ed's Pizza in Lakewood. Possibilities for the September meeting are a visit with Father Moran, 9N1MM, and for the November meeting, W6BIP is scheduled to talk on RFI/TVI/VCRI.

Tex, N6AHV, gave his usual, well received, "Rumors Around the Bands."

Gunner, W6YB/ZS6BCZ, gave a slide presentation on the operation from Swaziland. Reported were some 7,000 contacts and 140 countries for this effort.

The raffle tickets were drawn at the close of the meeting and the winners of the prizes were as follows: W6EA, Dual Time digital clock; WA6NLJ, SS-32 PL; KB6HW, Hi-Pass filter; N6CGB, SS-32 PL; N6AHV, SS-32 PL; W84DQH, SS-32 PL; N6FC, SS-32 PL; KB6HW, QST Binder; W6MBV, Coax Seal.

The meeting was adjourned at 9:40 PM.

SCDXC MEMBERS PARTICIPATE IN OLYMPICS

The following SCDXC members participated in amateur radio support for the Olympic marathons: Chuck Lobb, KN6H; Len Geradi, NC6H, and his XYL Judy, KA6FBI; Chris Conner, NX6U, and his XYL Katy, KA6TLD; Joe Locascio, K5KT; and John Alexander, K6SVL.

Don Bostrom, N6IC, participated in amateur radio support for the Olympic yachting competition.

Marty Woll, N6VI, was the assistant manager of the UCLA Olympic Village amateur radio station.

Chuck Lobb, KN6H, has written a story on the Olympic marathons which will appear in the October issue of Worldradio.

MINUTES OF THE AUGUST 9, 1984 MEETING

By Dan Daviff, N6CGB
Secretary, SCDXC

The Annual "PIZZA MEETING" was held at Me and Ed's Pizza on Paramount Blvd. in Lakewood.

Since this was a fun, family, get-together, no Club business was conducted.

The group was called to order at 8:09 PM by Marty Woll, N6VI, SCDXC Vice President. Marty began the meeting by reading a list of the door prizes in anticipation of a large number of ticket sales.

At 8:27 PM. the winning tickets for the evening's top prize was drawn, and the very happy owner of the ICOM IC-02 handheld was our President, Joe Locascio, K5KT.

The winners of the remaining prizes were as follows: KA6QHI, MFJ Dual Time Digital Clock; N6CGB's XYL, Lunar 2-Meter Preamp; W6TZD, Drake Low-Pass Filter; W6VZZ, ARRL Repeater Directory; N6JUO, 6 outlet AC control console; and W6SP, an ARRL Repeater Directory.

The turnout for the evening was 41 persons, 11 being charming YLs!

The meeting was adjourned at 9:10 PM.

SEPTEMBER PROPAGATION PRDICTIONS

The September 15 to October 15 propagation predictions given on page 3 and the September propagation forecast and chart information in the right column are courtesy of CQ magazine. Openings on 160 meters are likely to occur during those times when 80 meter openings are shown with a propagation index of (2) or higher.

ACTIVITY REPORT

K6YRA: HS0JUA 7/27 1430 14199; FW0BT 8/1 0425 14192; H44SH 8/1 1400 14186; V85GF 8/5 1320 14170; 4X4BL 8/6 0417 14218; JT1AO 8/6 1427 14227; BY1PK 8/8 0748 14155; BY4AA 8/8 0801 14160; XX9DX 8/8 1417 14245; A22CA 8/8 1425 14253; 9M2RT (SCDXC member NN6U) 8/8 1437 14162; KC7UU/5N6 8/9 0111 14259; LX1TL 8/12 1447 14158; IS0CPU 8/14 0007 14197; TG9XLG 8/16 0314 3306; YB0ARA 8/17 1352 7076; ZP5JCY 8/19 1015 3795; DU9RG 8/19 1025 3797; U50K 8/22 0422 14190; UL7EZ 8/23 0311 14174; UL8CWI 8/23 0311 14174; RI8BB 8/23 0329 14224; UF6RB 8/23 0355 14225. All contacts are SSB.

FOR SALE:

1) Hy-Gain 204BA, 4 element 20 meter monobander, good condition, $125.
2) Hy-Gain 3 element 15 meter modified (wide spaced), excellent condition, $85.
Contact Al, K6YRA.

LAST MINUTE FORECAST

Day-to-Day Conditions Expected for September 1984

Propagation Index	Expected Signal Quality (4)	(3)	(2)	(1)
Above Normal: 2, 13, 21	A	A	B	C
High Normal: 3, 11-12, 18, 22, 28-29	A	B	C	C-D
Low Normal: 1, 4, 8-10, 14, 17, 19-20, 25-27, 30	A-B	B-C	C-D	D-E
Below Normal: 5, 7, 15-16, 23	B-C	C-D	D-E	E
Disturbed: 6, 24	C-E	D-E	E	E

Where expected signal quality is: **A—Excellent opening, exceptionally strong, steady signals greater than S9.**

B—Good opening, moderately strong signals varying between S6 and S9, with little fading or noise.

C—Fair opening, signals between moderately strong and weak, varying between S3 and S6, with some fading and noise.

D—Poor opening, with weak signals varying between S1 and S3, and with considerable fading and noise.

E—No opening expected.

HOW TO USE THIS FORECAST

1. Find *propagation index* associated with particular band opening from Propagation Charts appearing on the following pages.

2. With the *propagation index*, use the above table to find the expected signal quality associated with the band opening for any day of the month. For example, an opening shown in the charts with a *propagation index* of 3 will be good-to-fair (B-C) on the 1st, excellent (A) on the 2nd, good (B) on the 3rd, good-to-fair (B-C) on the 4th, etc.

HOW TO USE THE DX PROPAGATION CHARTS

1. Use Chart appropriate to your transmitter location. The Eastern USA Chart can be used in the 1, 2, 3, 4, 8, KP4, KG4 and KV4 areas in the USA and adjacent call areas in Canada; the Central USA Chart in the 5, 9 and 0 areas; the Western USA Chart in the 6 and 7 areas, and with somewhat less accuracy in the KH6 and KL7 areas.

2. The predicted times of openings are found under the appropriate meter band column (15 through 80 Meters) for a particular DX region, as shown in the left hand column of the Charts. An * indicates the best time to listen for 160 meter openings.

3. The *propagation index* is the number that appears in ( ) after the time of each predicted opening. The index indicates the number of *days* during the month on which the opening is expected to take place as follows:
(4) Opening should occur on more than 22 days
(3) Opening should occur between 14 and 22 days
(2) Opening should occur between 7 and 13 days
(1) Opening should occur on less than 7 days
Refer to the "Last Minute Forecast" at the beginning of this Propagation column for the actual *dates* on which an opening with specific propagation index is likely to occur, and the signal quality that can be expected.

4. Time shown in the Charts are in the 24-hour system, where 00 is midnight; 12 is noon; 01 is 1 A.M., 13 is 1 P.M., etc. Appropriate *daylight* time is used *not* GMT. To convert to GMT, add to the times shown in the appropriate chart 7 hours in PDT Zone, 6 hours in MDT Zone, 5 hours in CDT Zone, and 4 hours in EDT Zone. For example, 14 hours in Washington, D.C. is 18 GMT. When it is 20 hours in Los Angeles, it is 03 GMT, etc.

5. The charts are based upon a transmitter power of 250 watts c.w., or 1 kw, p.e.p. on sideband, into a dipole antenna a quarter-wavelength above ground on 160 and 80 meters, and a half-wave above ground on 40 and 20 meters, and a wavelength above ground on 15 and 10 meters. For each 10 db gain above these reference levels, the *propagation index* will increase by one level; for each 10 db loss, it will lower by one level.

6. Propagation data, contained in the Charts has been prepared from basic data published by the Institute For Telecommunication Sciences of the U.S. Dept. of Commerce, Boulder, Colorado, 80302.

QSL UPDATE

A22BM	via	N4FD	CP6JX	via	DK3HL	ET3PS	via	DJ9ZB	H44SA	via	AD1S	IP9ARU	via	IT9FWO	KG4AW	via	KA4TAY	OY1R	via	W2KF
A35MO		ZL1AXU	CSØBI		CT4UW	FØHIF		WA4VDE	H44SH		AD1S	ISØCPU		ISØWON	KG4DX		WB2CPV	OY7A		LA9PCA
A35SA		JN1MGP	CSØRS		CT1YH	FBØWJ		FBRV	H44U		H44DX	DL7HZ/ISØ		DL7HZ	KHØAC		K7ZA	OY8R		WØIIM
A4XJQ		G4MSX	CS1BWY		WD4HRO	FCØCQZ		DK5KC	H5AND		ZS6BCR	IT84KFQ		IT9ZGY	KD7P/KH2		KS7L	OY9R		K2IJL
A4XJW		N4WF	CS1SL		CT1SL	FGØHAS		F2VX	H5AYB		KS6BCR	IT84TQH		IT9TQH	OE6BVG/KH2		OE6BVG	LA5VAA/OY		LA5VAA
A6XJC		WB3CQN	CS5SRL		CT1AHU	FGØIHU		F6EYS	HBØCBJ		DJ1BP	IT84VDQ		IT9TQH	WH6Ø/KH4		KH6VR	OZ1FFG/OY		OZ1FFG
K6UA/A6		K6UA	CS7NH		CT4NH	FGØIIK		K2KTT	HBØDX		HB9AHC	DL7HZ/IT84		DL7HZ	KH6XX		W3HNK	OZ5UR/OY		OZ5UR
A71BK		G4HNP	CTØBI		CT4UW	FG7CK		FG7BT	DA1WA/HBØ		DJØLC	ON5NT/IT84		ON7SK	KH6JEB/KH7		KH6JEB	OZØAE/OY		OZØAE
A82LC		SM4CWY	CT1CSN		WA3HUP	FHBCL		WA4VDE	DF4GV/HBØ		DF4GV	IY4FGM		I4IKW	KH6LW/KH7		KH6JEB	P29GC		VK2BSM
A92DQ		K2IJL	CT2AK		W3HNK	FKBAE		F6EWK	DF7XA/HBØ		DF7XA	J28DP		F2GA	N2EDQ/KH7		KH6JEB	P29NBF		K6UJV
A92DY		WBLU	CT2CQ		W1RM	FKBAU		IØPU	DLØGBH/HBØ		DLØGBH	J28DX		F1CFD	WH6O/KH7		KH6VR	P42J		W1KDD
A92EB		KØLST	CT2DL		KE4OC	FMØFJD		W2GHK	ON4UBA/HBØ		ON7JF	J28LX		F1CDA	VE7BBC/KH8		VE7CXN	PAØVDV/PJ2		PAØVDV
A92NH		WBLU	CT2FN		F6BCW	FMØHTR		F6BEE	ON5NT/HBØ		ON7FK	J37AH		W2GHK	VE7LB/KH8		VE7LB	W1BIH/PJ2		W1KDD
AH8A		K6EDV	CT3TR		W3BL	FM7CL		W3HNK	KA7AWK/HBO		WB7NZI	J37AJ		W2KF	AH3AA/KH9		W1ISD	PJ4CR		WB2LCH
AM1A		EA3AOC	OH1MA/CT3		OH1MA	FM7WD		W3HNK	HC1EA		W2KF	J39AA		WB2LCH	KL7H		W3HNK	KA9IBG/PJ4		WB2LCH
AP2SQ		W3HNK	CU1XKA		CT1XK	FY7YE/FM7		W5JLU	HC1OT		W2KF	J39BS		WB2LCH	AD8J/KP2		AD8J	W1AEL/PJ4		W1AEL
AP2ZA		W6NLG	CX2ET		CX1EL	FOØAM		W2GBX	HG19HB		HA5KKG	J39CM		WB2LCH	K5NA/KP2		KU2Q	K3UOC/PJ6		K3UOC
AX1ITU		VK1MM	CX3BBH		AC2J	FOØFB		WB6GFJ	HG5A		HA7SU	N6DX/J3		N6DX	KA6NOR/KP2		KA6NOR	KR4C/PJ7		KR4C
AX9ITU		VK9XI	CX3BR		W3HNK	FOØILF		W6GC	HH2VP		W1FJ	J41JG		SV1JG	KX6BU		W1VUK	NC4U/PJ7		NC4U
BVØAA		OH2BH	CX4AAU		CX3AN	FOØKI		KA6LAF	K2QXS/HH2		WØQDG	J61H		W2GBX	KX6LA		WB4PRU	PU1YOC		PY1DFF
BVØJA		JG1QGT	CX4CQ		CX3AN	FO8CX		WB6GFJ	HH5JS		KC8JH	J6LJG		W2LZX	KX6OH		VK9NS	PU9AAF		PT7WCJ
BVØYL		JG1QGT	CX5BO		CX3AN	FO8DF		WB6GFJ	HI8CH		WB2LCH	J6LT		WB2LCH	KX6OI		N3DLD	PU9AY		PY1MDX
C3ØAAN		DL8OH	CX5CO		CX7BY	FO8FO		F2BS	HI8LC		W2KF	J73AB		KF4UP	KX6OR		AD1S	RØK		UAØKCL
C3ØBBA	via	F6ARI	CX6CP	via	CX3AN	FO8GW	via	K6FM	HI8RAU	via	WB2LCH	J73D	via	W2OB	LF7R	via	LA1HCA	R1Z	via	UK1ZAA
C3ØLAV		ET3CTE	CX7BY		WØIJN	FO8HI		WB6GFJ	K2QA/HI8		K8DHK	J73HA		W2GBX	LG5LG		LA2ZN	RLØG		UL7QF
C3ØLBK		EA3TJ	CX9AU		CX2SA	FO8HL		WB6GFJ	HKØBKX		WB4OFH	J88AC		W2KF	LU1JTA		LU4JJ	RP3P		UP1BZO
C31BD		F9JS	CYØSPI		VE1ASJ	FO8HO		WB6GFJ	HKØHEU		HKØFBF	F6HDX/J8		K7RLS	DL5MBO/LX		DL5MBO	RV1WCY		UK1ADZ
C31KI		DL5KV	CZ3PCA		VE2DZE	FO8KP		F6GXB	HL1CG		JA1ADD	K7RLS/J8		K7RLS	OA4DW		N4DW	S79MC		AK3F
C31NP		EA3BNX	N6GYZ/DU1		N6GYZ	K1RH/FP		K1RH	HL1SF		JH6YBW	JD1BBG		JA7AGO	OA4DW		WB2MOQ	S79SM		DK2IF
C31WX		DL3ZI	K6LNP/DU2		W7HPI	KA1C1/FP		K1RH	HL5OC		KE6RH	JD1BDX		JE2PXG	OA6EL		KC8JH	SO5DCA		LA4DCA
C53CC		WA4VDE	KB1Y/DU2		KAØHFB	W1CCN/FP		K1RH	HL9DX		N5DBB	JD1YAA		JA1WU	OD5AO		FØDOA	SPØDXC		SP7KTE
C53DU		DJ6SI	KK7K/DU2		WB7NOB	FRØHIF		WA4VDE	HL9FY		KCØLG	JTØAPE		UK3ABO	OD5FB		WA2QAU	TLØGE/STØ		F6FYD
C5AEG		N6BFM	N6IUF/DU2		K9URA	FR7BP		WØAX	HL9JT		N2AEW	JTØDJT		I8YGZ	OD5LT		KA2BZS	ST2SA		DJ9ZB
KØGVB/C6A		KØGVB	WA2PWL/DU2		WBØTEC	FR7DB		F6HMA	HL9RC		KCØLG	JT1AO		W7PHO	OD5LX		SMØDJZ	5N1OL/SU		NØAFW
K5MM/C6A		K5MM	DU6RH		W7PHI	FGØBKZ/FS7		F6AJA	HL9SN		KA5EPI	JT1BR		BURO	OD5SH		WA3HUP	KA4BSE/SU		WB1GGQ
N4JTE/C6A		N4JTE	KD7QU/DU6		W7HPI	FGØIHU/FS7		F6EYS	HL9TA		KØLST	JW5VAA		LA4YW	OE3FAC		WB2LCH	WD5AJE/SU		WB1GGQ
N5RM/C6A		N5RM	WB5LBJ/DU6		W7HPI	FV6PAX		F8BO	HP1XXO		WB5HXO	JW6MY		LA6MY	OE3YHU		WB2LCH	SVØDC		KA6ZDY
CEØAE		WA3HUP	DU7XX		DU6JM	FY9IS		FY7AN	W9KU/HP1		N9AVY	JW6VDA		LA5NM	OHØAM		OH2BH	SV1RP		SV1NA
CEØFCM		WB6WOD	DX7DX		DU6JM	G3EJH		WA4VDE	HR1DAP		K8CC	JX5FZ		LA7SO	OHØAP		OH1PA	SV5RW		YU3GL
CEØGBL		WB3CQN	EA8SK		DJ1KM	GØBOCC		G6CW	HR5SB/HR2		WBØMZB	JY3ZH		DJ9ZB	OHØBA		OH2BAZ	SV7JJ		W3HNK
CEØZIA		KA1ILA	EA9NW		EA4BGL	GØBWPX		G4IAR	HS1BV		KO2A	JY4MB		WA4HNL	OH1LW/OHØ		OH1LW	DF4RD/SV9		DF2RG
CE3DPD		F5IL	OH2BH/EA9		OH2BH	GB2ZOO		GJ2LU	HS4AMS		W7PJO	JY8CQ		WB3CQN	W5K5/OHØ		K5TU	KAØCYR/SV9		WB4TDB
CN8AD		F8JL	EH3IYU		EA3AOC	GB4ANT		G4ANT	HZ1AB		K8PYD	JY9AA		WA3HUP	ON6WO		W2GBX	KN8M/SV9		K8CW
CN8CC		F6FNU	EL2AG		WA4VDE	GD5AVF		W2KN	I2BVS/ID8		I2MQP	JY9RA		DL8RA	ON8IC		W2GBX	SVØDF/SV9		K8CW
CN8CX		HB9AGH	EL2AV		N6FL	DF3GX/GU4		DF3GX	I2DMK/ID8		I2MQP	JY9TS		WA3HUP	OX3GH		WA2TTI	T2RAA		JA2VUP
CP6HK		WB4LFM	EL7W		K4SE	GU5CIA		N6MA	I2NYN/ID8		I2MQP	KC4AAA		K9AUB	OX3LY		W3HNK	T2RTY		JA2VUP
CP6IF		WB4LFM	EL9B		KD4ZS	H31LR		HP1L	IQØNKN		1ØNKN	KC6HA		K6EDV	OX3SG		LA5NM	T2YKC		JA2VUP
CP6IM	via	WB1DQC	EN4L	via	UA4LM	H44R	via	H44DX	IPØONU	via	I8NEI	KC6RN	via	JH1RNZ	OX5RJ	via	WA1FSV	T3ØAC	via	K6EDV

T3ØAT	via	G4GED	TU2JD	via	AK3F	VP2KM	via	WA6ZEF	YB3DC	via	KO2A	ZP5JAL	via	KO2A	5H3FG	via	VE7QM	8Q7XA	via	JE2PXG
T3ØCH		W9SLT	TU2LE		F6ESH	K4FW/VP2K		K4FW	YB5ASO		W4BBP	ZP5JCY		LU8DPM	5H3HS		DK8MZ	9A1C		I2VGZ
T3ØDB		G8LGB	TU7H		AK3F	VP2M		WB2LCH	YC1GJ		W2GBX	ZP5PX		W3HNK	5H3LB		SM5CPC	9G1LA		N1AGK
T3ØRN		JH1RMZ	TU7I		AK3F	VP2MDG		W6FDG	YJØAIM		WB6RHE	ZP5XDW		N4DW	5H3OJ		5Z4DP	9H1CE		W2KF
T31AT		G4GED	TZ6CY		N8US	VP2MIX		WØIJN	YJØAKG		VK4IOB	ZS1CT		DL2MY	5H3OM		VE7QM	9H1EL		LA2JO
T32AB		N7YL	U1NV		UZ1NWO	VP2MKY		KY5R	YJØDX		JL1KDX	ZS3HL		KE1A	5H3RF		SMØEAO	9H3B		W2GBX
T32AD		G4GED	U2ANN		UC1AWW	VP2MLD		WB2LCH	YJØGX		F6GXB	ZV2BW		PT2BW	5H3TC		VE3DLV	9H3CB		G4PPK
TA1AS		DJØOC	U2WZK		UC1WWO	VP2MN		WB2LCH	YJØOT		VK3OT	ZY8BI		PY8BI	5H3VB		N3DLB	9H9MHR		9H1AV
TA1MB		K2UO	U3LKG		UK3LAC	VP2MO		WB2LCH	YK1AA		DJ9ZB	1Z9A		W7PHO	YU3KI/5NØ		YU3KI	9J2KO		G3SLN
YU3FK/TA1		YU3FK	U5FOO		UK5FAD	VP2MOC		W2KF	YN1FI		VE3QG	3AØAA		I8MWI	5H3RTF		DK2IF	9K2BE		G4GIR
TA3GB		W2GBX	U5KDR		UK5KAA	VP2MP		W2KF	YN1QG		VE3JDO	3AØGB		W2GBX	5R8AL		WA4VDE	9K2PM		9M2DW
TABCN		NBCQ	U9Z		UA9YEW	VP2MPB		N3CEX	YS1UL		WAØJYJ	3A2ARM		OH2BH	5T5RO		F6IIM	9L1FC		WAØCAE
TE2TX		TI2CF	UA1OT		UB5KW	VP2MSS		K3RMX	YS9RVE		WAØJYJ	3A2EE		F9RM	5T5RY		F6FNU	9L1GA		N1AGK
TE5OX		TI2CF	UK1PAB		UKØBAL	VP2MTY		WD4FHN	YT7W		YU7BCD	DL1BA/3A		DL1BA	5U7LD		IN3RZY	DF2AL/9L1		DF2AL
TF5BG		F6CXV	UK2RDX		W7PHO	VP2VA		VE3MJ	YU3MM		YU3TPG	3B7CD		3B6CD	5W1AU		W6KNH	9M2AV		JA3BQE
KD5YF/TF		W5SOO	UK8JBD		UJ8JMM	VP2VEB		WØDVZ	YZ2NFJ		YU2NFJ	3B8DB		K5BDX	5W1OZ		WB2LVB	9M2DC		G4RZQ
KD5YG/TF		AK1E	UO5OAO		W7PHO	VP2VGF		NP2AF	YZ7VC		YU7ECD	3D2AJ		WB3CQN	5W1EJ		WØWP	9M6MO		KO2A
KE4SX/TF		KE4SX	UW1PA		UZ1OWA	WB9TIY/VP2V		WB9TIY	Z21GC		N1CBM	3D2BD		ZL1BD	5W1EV		VE3XJ	9M6VW		KO2A
W3TB/TF		W3IVG	UW3HY/UW1		UA1ØSM	VP5MF		W3HNK	Z24JS		W3HNK	3D2DA		W6REC	5X5DC		DL2KAD	9N1MM		N7EB
TG9VT		W3HNK	V2AZN		VE3DUS	VP8KF		G3VPW	ZB2CJ		G3ATU	3D2DX		VE6RA	5X5GK		JA1BK	9Q5FL		K4AEB
TG9XGV		K4CLA	F6HIX/V2A		F6EYS	VP8LP		G3VPW	ZB2FX		G3RFX	3D6AJ		WB3CQN	5Y4CV		W2KF	9Q5JB		ON5NT
TG9XHQ		JA4FGD	KA2DIV/V2A		WB4OSN	VP8MT		GW4KGR	ZC4SZ		G4MGQ	3D6AK		G3WPF	5Z4CS		WA4VDE	9Q5MA		K1VSK
TIØHE		TI2VVR	KK9A/V2A		KK9A	VP8NX		GM3ITN	ZD7CW		N4CID	3D6AL		3D6AT	5Z4CV		W2KF	9Q5CM		F3LQ
TI2EW	via	KE1A	V3CAC	via	KBØG	VP9KA	via	W1BPM	ZD8KM	via	G3IFB	3D6AO	via	WB3CQN	5Z4DE	via	KA4S	9Q5JB	via	ON5NT
TI2HI		TI2VUE	V3WTM		WD5CXF	VQ9AC		KE3EDN	ZD8RC		W3HNK	3D6DX		G3WPF	5Z4DJ		G4AJP	9Q5JM		F3LQ
KD4LI/TI2		W2GBX	N4DJX/V3		N4JBW	VQ9CI		KE4OC	ZD8TC		G4UPS	3K3TT		VE6ZZ	5Z4DP		G8HQH	9V1VM		WBØTEC
KA4EIN/TI4		N5BOR	V85GA		G4CCM	VQ9GE		WB7AWO	ZD8TM		ZD8AR	3V8AM		DL1ART	5Z4DR		YU3TU	9V1WC		DF2GP
TI5MRS		VE3MRS	V85HG		VS5HG	VQ9VO		KA6V	ZD9BV		W4FRU	3V8PS		IN3RZY	5Z4DU		N4IPT	9V1WZ		BURO
TI9CF		TI2CF	V85MS		N2OO	VQ9WT		VQ9CI	ZD9CA		KA1DE	3X4EX		N4CID	5Z4MX		SM3CXS	9V4GX		W7PHO
TI9J		TI2J	V85SS		JA4ENW	VR6BR		KA9W	ZD9CC		ZS2DK	LA2EX/3X4		N4CID	5Z4RT		KA3DSW	9X5MB		WB6VKD
TJ1AF		WA4VDE	V85TT		BURO	VS6CF		W5QK	ZD9YL		W4FRU	4KØB		UA1MU	6ØØ4TI		I2YAE	9X5ME		IK4BHN
TJ1QS		F6DZU	VE1GU		WB2LCH	VS6DO		K4CIA	ZF2AH		WA6VNR	4K1B		UK6LAZ	6W1AS		DJ3AS	9X5NH		DL8OB
TK5VN		FC9VN	VE1XA		WB2LCH	VS6GX		G4LJF	ZF2FL		N6RJ	4K1F		UQ2CC	6W1CC		F6CVE	9X5VL		ON4ER
TK6JUN		F5JY	VE1ASJ		VE1ASJ	VU2YOU		K4YT	ZF2GW		W2HPF	4K1GAG		UQ2OC	NR4J/6W1		WØZUZ	9X5WP		WB6VKD
TØHI/TK		GU3KFT	VKØAG		VK3BER	VY3IY		VE3IY	ZF2HX		K5RX	4M5ARV/4M6		YV5ARV	6W2EX		F6HRI	9Y4CDR		WD5JOL
F5RV/TK		F5RV	VK4BZZ		WB6GFJ	VY3KUK		VE3KUK	ZK1DC		3D2ES	4M7PF		YV7OL	6W8JU		F6GGS	9Y4DX		AG1J
TL8AV		WA4VDE	VK5ATB		WB2LCH	WH6R		AK7Q	ZK2ZZ		W6TI	4N7W		YU7JDE	6Y5DZ		WB6UBR	9Y4E		WA4WTG
TL8CK		F6EWM	VK9LH		VK2AGT	XE2FU		K5RC	ZL4LZ		W6ORO	4N8KKK		YU8CF	6Y5IC		KE3A	9Y4HM		K6JXO
TL8TX		KØVZR	VK9LL		W6REC	XE2MX		K6VNX	ZL7AMO		ZL1AMO	4S7MMR		KZ8Y	6Y5JT		WB2LCH	9Y4IH		WB3AKI
TL8YD		F6FYD	VK9ZA		VK6YL	XJ3SAS		VE3FOI	ZL7BKM		ZL2HF	KB5AIV/4S7		W4FRU	6Y5MJ		K8ZBY	9Y4JA		AC3A
TRØAB		F6AJA	VP2EAJ		K2KTT	XT2BJ		DL6FAL	ZL7PA		ZL3PA	4T8CP		N4CQ	6Y6A		6Y5HN	9Y4JW		K2QIE
TR8AHO		DK1PO	VP2EC		N5AU	XT2BM		DE3KOA	ZL7PO		ZL4KI	4U1UN		W2MZV	7X2BK		F6EWK	9Y4LL		K2QIE
TR8CR		TR8JLD	VP2EH		KC5EA	XT2EB		DF5EO	ZL8AAS		ZL1AAS	4U91TU		W1RR	8J1ITU		JA1RL	9Y4NP		W3HNK
TR8DR		W2PD	VP2KBP		K1IJV	XX9YD		K8PYD	ZL8AFH		ZL3AFH	OH9TU/4U		OH9RJ	8P6NX		W8SAB	9Y4VE		VE3GCO
TR8GM		F6ESH	VP2KBQ		K1IJV	DJ4IJ/XZ		DJ5IO	ZL8AMO		ZL1AMO	4X361D		4X4HQ	8P6OP		W2GBX	9Y4VU		W3EVW
TR8WR		F6ERG	VP2KBU		ACØFW	YBØAFA		WA7OGU	ZL8BQD		ZL1BQD	AK2N/4X		AK2N	KZ8Y/8P6		KZ8Y	9Y4WCY		BURO
TT8RP		F6KGU	VP2KBZ		VE3KZ	YBØARA		K6DLV	ZM7VU		F6DYG	5H3BH		SMØEAI	N8DCL/8P6		KZ8Y	9Y4XX		N6MM
TU2HH	via	WA4VDE	VP2KCA	via	KØGU	YB2ARH	via	K2ROR	ZP5AO	via	W3HNK	5H3DG	via	VE7CYY	8Q7BM	via	JA8BMK	9Y5DK	via	N4BPP

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15 SEP - 15 OCT	PST	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
WESTERN & SOUTHERN EUROPE & NORTH AFRICA	10										1	1	1													
	15									1	2	2	2		1											
	20							1	2	2	2	1	1	1	2	3	3	2	1	1						
	40																					1	2	2	1	
	80																						1	1		
CENTRAL & NORTHERN EUROPE & EUROPEAN USSR	15									1	2	2	1	1	1											
	20							1	2	2	1	1	1	2	2	2	2						1	1		
	40																					1	1	1	1	
	80																					1	1	1	1	1
EASTERN MEDITERRANEAN & MIDDLE EAST	15									1	2	2	2	1									1	1		
	20							1	2	2	2	1	1	1	2	2	1					1	2	2	1	
	40																					1	2	1	1	
WESTERN & CENTRAL AFRICA	10													1	2	2	1									
	15										1	1	2	2	2	3	3	2	1							
	20							1	2	2	2	1	1	1	1	1	2	4	4	3	3	2	2	1	1	1
	40																							1	1	1
EASTERN AFRICA	10													1	1	1	1									
	15											1	1	1	2	2	2	1	2	2	1	1	1			
	20								1	1				1	1	2	2	2	2	2	1	1				
	40																					1	1	1		
SOUTHERN AFRICA	10											1	1	1	1											
	15								1	1	2	2	3	3	1	2	2	1								
	20	1						1	2	2	1				1	1	2	2	3	3	2	1	1	1	2	2
	40																					1	1	1		
CENTRAL & SOUTH ASIA	10																									
	15									1	1	1						1	1	1	1	1				
	20								1	2	2	2	1	1					2	1	2	2	1	1	1	
	40								1	1												1				
SOUTHEAST ASIA	10																		1	1	1					
	15											1	2	2	2	1	1	1	2	2	1	1				
	20	2	1				1	1	3	3	2	2	1										1	1	2	
	40		1	1	2	2	2	1	1																	
	80				1	1	1																			
FAR EAST	10																		1	2	1					
	15															1	2	1	2	3	1	2				
	20	2	1	1					1	2	4	3	3	3	2	2	1		1	1	1	1	2	3	3	
	40		1	1	2	2	2	2	3	1																
	80				1	1	2	2	1																	
SOUTH PACIFIC & NEW ZEALAND	10													1	1	2	2	3	3	2	2	1				
	15	1									1	1	1	3	3	2	2	3	2	3	3	4	3	2	1	
	20	4	3	3	2	2	1	2	3	3	2	2	2	2	2	1	1	1	1	1	1	2	3	3	4	
	40	4	4	4	4	4	3	3	2	1												4	3	2	3	
	80	1	1	2	2	2	2	1															1		1	
AUSTRALASIA	10																									
	15										1	1				1	1	2	2	3	2	3	3	2		
	20	4	3	3	2	1	1	1	2	3	1	3	2	2	1							1	2	2	4	
	40		1	2	3	3	3	2	2	1																
	80			1	1	2	2	1																		
CARIBBEAN, CENTRAL AMERICA & NORTHERN SOUTH AMERICA	10											1	2	3	3	4	4	3	2	1						
	15								1	3	3	3	2	3	3	3	3	4	4	3	2	1				
	20	3	2	2	1	1	2	4	4	3	3	2	2	2	2	2	2	3	3	4	4	4	4	4	3	
	40	3	3	2	2	1	1	1														1	1	3	3	
	80	2	2	2	1	1																	1	1	2	
PERU, BOLIVIA, PARAGUAY, BRAZIL, CHILE, ARGENTINA & URUGUAY	10											1	2	2	3	3	4	4	3	2						
	15								1	2	1	1	1	1	1	2	2	3	4	4	3	2				
	20	3	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	2	2	3	4	4	4	4	3	
	40	2	2	1	1																		1	1	2	
	80	1	1	1																						

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SO. CALIF DX CLUB

DXCC on WAZ

CONTEST continued from page 1

little trouble in prioritizing station improvements and getting timely feedback on the changes he has made.

One more important benefit must be mentioned: contesting is just plain fun. You need not spend a grueling 48 hours if you don't want to. Your activity can be limited to a daytime or a nighttime band in many contests, allowing you to get some sleep or appease the family while still being competitive. Most contests have multi-operator entry categories; you can enjoy the comradery of team competition, let others do some (or, if you prefer, most) of the operating and get help with the log-duping and QSLing chores. By the way, there are even outside computer services you can hire to handle some of the paperwork for a nominal fee.

Getting interested? Good! Future articles will deal with such matters as: 1) how operators and stations can be matched up for mutual benefit; 2) how the SCDXC repeater can be used, legally, to boost contest scores; and 3) why certain hams in the northern reaches of our state think we in Southern California are hopelessly incapable of working together and what we can do about it. Stay tuned!

QSL MANAGER INFORMATION INSERT

Several members have written and asked the editor to publish DX station QSL manager information. It seems like the Bulletin always fills up before the QSL information finds a place. So, this month I am including a recent list of QSL manager information courtesy of The Long Island DX Bulletin. This QSL information is included as an insert because, as usual, the space ran out before the material did - even though the small type is being used. I hope some find this information useful.